

SWBAT take and evaluate time measurements

practice describing data collection methods

Sep 4-7:31 AM

InterActive Notebook - Table of Contents

Unit \_\_\_\_\_ Chapters \_\_\_\_\_ Date \_\_\_\_\_

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Sep 5-9:09 AM


SECA CP Physics  
Tuesday 22 September 2015

# Welcome!!!

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PEDs with Passing





Have SchoolView up as you walk in, please...

\* Get started on the opening activity:

- Paste our data table into page 11
- Look it over and come up with at least 2 observations: what do you notice?

C & D IS LOWER A & B

A & B BOTH IN .80s

A & B AVG IN .80s

Bs # CLOSE & AS

THEY'R UNDER 1s

C & D START .50s & .60s

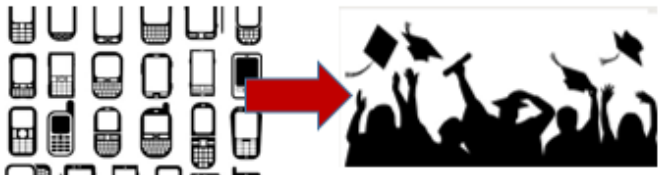
STANDARD DEVIATION

A	B	C	D
.021	.006	.135	.065

Centering

Sep 7-7:04 AM

## PEDs with Passing



- **All students** start the quarter **passing**
- Grades are **always** current Mondays at 8:00 AM (maybe more often)
- Each DAY students can show on SchoolView that they are passing **this class**; then keep the phone with them in class as long as they are being RHR.
- Anyone not looking up grade or not passing **secures** PED before entering
  - Their locker,
  - Their backpack,
  - Or safe teacher lock-up spot
- Can retrieve them at end of class for use during passing time, break, lunch, ...

[tiescloud.net/schoolview](http://tiescloud.net/schoolview)

Sep 10-7:39 AM

## Page 11: Timing and Error

- Build a pendulum
- Hang with 10 cm of string below desk
  - Release from desk height
  - Take turns timing one swing (secret competition!)

What did we get?

Take average of your group

How do we improve accuracy?

Sep 18-7:36 AM

pg 11 TIMING & ERROR

MY TIME FOR 10cm: \_\_\_\_\_

MY TABLE'S AVG FOR 10cm: \_\_\_\_\_

AVG:  $\square + \square + \square + \square =$  THEN  
           $\downarrow$  SHOULD BE IN THE MIDDLE  $\uparrow$  DIVIDE BY #

List of sources of error: **T P S**

YESTERDAY: - TYPING IT IN

- HOW TO READ STOPWATCH
- STARTING/STOPPING TIMER/FINGERS
- EYESIGHT
- NOT RELEASING SAME HEIGHT
- NOT PAYING ATTENTION
- OTHER PERSON RELEASED
- TAPE IN DIFFERENT SPOT
- MEASURE LENGTH TO DIFFERENT SPOT

Sep 21-10:14 AM

Page 10:

- Diagram<sup>(s)</sup> of set up, labeled
- Explain your procedure (numbered steps)

Goal: someone in another class could set it up the same way and get the best results possible...

Summarize

If you need to time something (like a ping pong ball rolling on a track)

- What affects the accuracy?
- What can you do to improve your answer?

Also Reflect: What does this mean about science in general (not just timing things)?

Sep 18-7:55 AM

- Re-Hang with 40 cm of string below desk
  - Release from desk height
  - Take turns timing one swing (secret competition!)

What did we get?

Take average of your group

How do we improve accuracy?

Sep 18-7:54 AM